

1. (Twice Amended) A method of forming a magnetic resonance image of an object to be examined, comprising the steps of:

- acquiring magnetic resonance signals,
- determining the position of a measuring site,
- determining a geometrical relationship between the measuring site and the object being examined,
- reconstructing the magnetic resonance image from the magnetic resonance signals and on the basis of the position of the measuring site,
- reproducing a detail of the object being examined and an indication of the measuring site together in the magnetic resonance image, and
- deriving a correct position of the detail of the object being examined in the magnetic resonance image relative to the indication of the measuring site on the basis of the position of the indication of the measuring site and the determined geometrical relationship between the measuring site and the object being examined.

10. (Twice Amended) A magnetic resonance imaging system for forming a magnetic resonance image of an object to be examined comprising:

- a coil system for acquiring magnetic resonance signals and for determining the position of a measuring site,

a unit for the determination of a geometrical relationship between the measuring site and the object being examined, and

a reconstruction unit for the reconstruction of the magnetic resonance image from the acquired magnetic resonance imaging signals and the position determined for the measuring site, the reconstruction unit being arranged to reproduce a detail of the object being examined and an indication of the measuring site together in the magnetic resonance image,

a correct position of the detail of the object being examined in the magnetic resonance image relative to the indication of the measuring site being derived on the basis of the position of the indication of the measuring site and the determined geometrical relationship between the measuring site and the object being examined.

12. (Twice Amended) A computer program which forms a magnetic resonance image of an object to be examined containing instructions for:

the acquisition of magnetic resonance signals, and
the determination of the position of a measuring site,
the determination of a geometrical relationship between the measuring site and the object being examined,

the reconstruction of a magnetic resonance image from the magnetic resonance imaging signals and on the basis of the position of the measuring site,

the reproduction of a detail of the object being examined and an indication of the measuring site together in the magnetic resonance image, and

the derivation of a correct position of the detail of the object being examined in the magnetic resonance image relative to the indication of the measuring site on the basis of the position of the indication of the measuring site and the determined geometrical relationship between the measuring site and the object being examined.

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REMARKS

Reconsideration of the present application, as amended, is respectfully requested.

The January 22, 2003 Office Action and the Examiner's comments have been carefully considered. In response, claims 2, 6-8 and 13-17 are cancelled, claims 1, 10 and 12 are amended and remarks are set forth below in a sincere effort to place the present application in form for allowance. The amendments are supported by the application as originally filed. Therefore, no new matter is added.